10320 Camino Santa Fe, Suite G
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COLQ Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP54326

Specification

COLQ Polyclonal Antibody - Product Information

Application	**IHC-P, IHC-F, IF, ICC, E**
Primary Accession	Q9Y215
Reactivity	**Rat, Pig**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**45 KDa**
Physical State	**Liquid**
Immunogen	**KLH conjugated synthetic peptide derived from human COLQ**
Epitope Specificity	**301-400/455**
Isotype	**IgG**
Purity	
affinity purified by Protein A	
Buffer	**0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.**
SUBCELLULAR LOCATION	**Cell junction; synapse.**
SIMILARITY	**Belongs to the COLQ family. Contains 2 collagen-like domains.**
Post-translational modifications	**The triple-helical tail is stabilized by disulfide bonds at each end.**
DISEASE	**Defects in COLQ are the cause of congenital myasthenic syndrome Engel type (CMSE) [MIM:603034]; also known as end-plate acetylcholinesterase deficiency or congenital myasthenic syndrome type IC (CMS-IC). CMSE is a rare autosomal recessive congenital myasthenic syndrome characterized by onset during childhood, generalized weakness, abnormal fatigability on exertion, refrectoriness to acetylcholinesterase drugs, decremental electromyographic response and morphological abnormalities of the neuromuscular junctions.**
Important Note	**This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.**

Background Descriptions
This gene encodes the subunit of a collagen-like molecule associated with acetylcholinesterase in skeletal muscle. Each molecule is composed of three identical subunits. Each subunit contains a proline-rich attachment domain (PRAD) that binds an acetylcholinesterase tetramer to anchor the catalytic subunit of the enzyme to the basal lamina. Mutations in this gene are associated with endplate acetylcholinesterase deficiency. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

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COLQ Polyclonal Antibody - Additional Information

Gene ID 8292

Other Names
Acetylcholinesterase collagenic tail peptide, AChE Q subunit, Acetylcholinesterase-associated collagen, COLQ

Target/Specificity
Found at the end plate of skeletal muscle.

Dilution
IHC-P~~N/A<br \>IHC-F~~N/A<br \>IF~~1:50~200<br \>ICC~~N/A<br \>E~~N/A

Storage
Store at -20 ℃ for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 ℃.

COLQ Polyclonal Antibody - Protein Information

Name COLQ

Function
Anchors the catalytic subunits of asymmetric AChE to the synaptic basal lamina.

Cellular Location
Synapse.

Tissue Location
Found at the end plate of skeletal muscle.

COLQ Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

COLQ Polyclonal Antibody - Images